UK Subject to change

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FSD-1800KI/18424/PMR2/Issue 1/Mar02

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USER'S MANUAL

Ferm Cordless Drills

FSD-960KI
FSD-1800KI

Ferm®

Art.nr. 718810
Screwfix art.nr: 13882 – 960
Art.nr. 718870
Screwfix art.nr: 18424 – 1800

UK English

FERM FSD-960K I AND 1800K I USERS MANUAL

TECHNICAL SPECIFICATIONS

Voltage (718810)	9.6 V⎓
Voltage (718870)	18 V⎓
Voltage battery charger	230 V~
Frequency battery charger	50 Hz
Capacity battery	1.2 Ah (NiCd)
Charging time	3 - 5h
Number of drilling speeds	1
No load Speed (718810)	0 - 550/min
No load Speed (718870)	0 - 900/min
Weight (incl. battery)	1.8 kg
L_{pa} Sound pressure level	75 dB(A)
Vibration	<2.5 m/s^2

PACKAGE CONTENTS

1 Cordless drill
1 Battery
1 Charger
1 Adapter
1 Case
1 Instruction manual
1 Guarantee card
1 Safety instructions

SAFETY INSTRUCTIONS

The following symbols are used in these instructions for use:

Denotes risk of personal injury, loss of life or damage to the tool in case of non-observance of the instructions in this manual.

Denotes risk of electric shock.

Carefully read this manual before using the machine. Make sure that you know how the machine functions and how to operate it. Maintain the machine in accordance with the instructions to make sure it functions properly. Keep this manual and the enclosed documentation with the machine.

Ferm products are manufactured to high quality standards they are safe and fit for purpose at time of sale, but all tools can be dangerous if the correct precautions are not taken. Always follow these instructions, do not carry out the operation until you are sure you can do so in safety. Remember consider the work environment for safe operation as well as safety for tool use.

Warning! *When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury. Read all these instructions before attempting to operate this product. Save these instructions for future reference.*

PERSONAL SAFETY

Use Personal Protection Safety Equipment

Protect eyes with safety glasses or goggles note: the use of safety protective eyewear without the CE mark can lead to serious injury if the glass breaks. A suitable dust mask should be worn if cutting drilling or sanding is dusty, in particular chipboard or MDF. Approved safety footwear and headgear should worn as appropriate, for example on building works or when heavy weights are involved.

Dress properly

Do not wear loose clothing or jewellery. It can get caught in moving parts. Non-skid footwear is recommended when working out doors. Wear protective hair covering to contain long hair.

Stay alert

Watch what you are doing Use common sense. Do not operate tools when tired or after taking alcohol or prescription/ non-prescription drugs.

OPERATIONAL SAFETY

Concentrate

Routine and repetition can lead to mistakes. Remember that a slight lack of concentration can result in serious injuries in a split second.

Keep work area clean

Cluttered areas and benches invite injuries.

Consider the work environment

Do not expose power tools to rain or use them in damp or wet locations. Keep work area well lit. Do not use power tools in the presence of flammable liquids, vapours or gases.

Guard against electric shock

This unit contains dangerous voltages. Use a RCD (residual current device) to provide protection against electrical shock. Prevent body contact with grounded surfaces (e.g. pipes, radiator, ranges or refrigerators).

Keep children and pets away

Do not let children or pets come into contact with the tool, extension cable or work area.

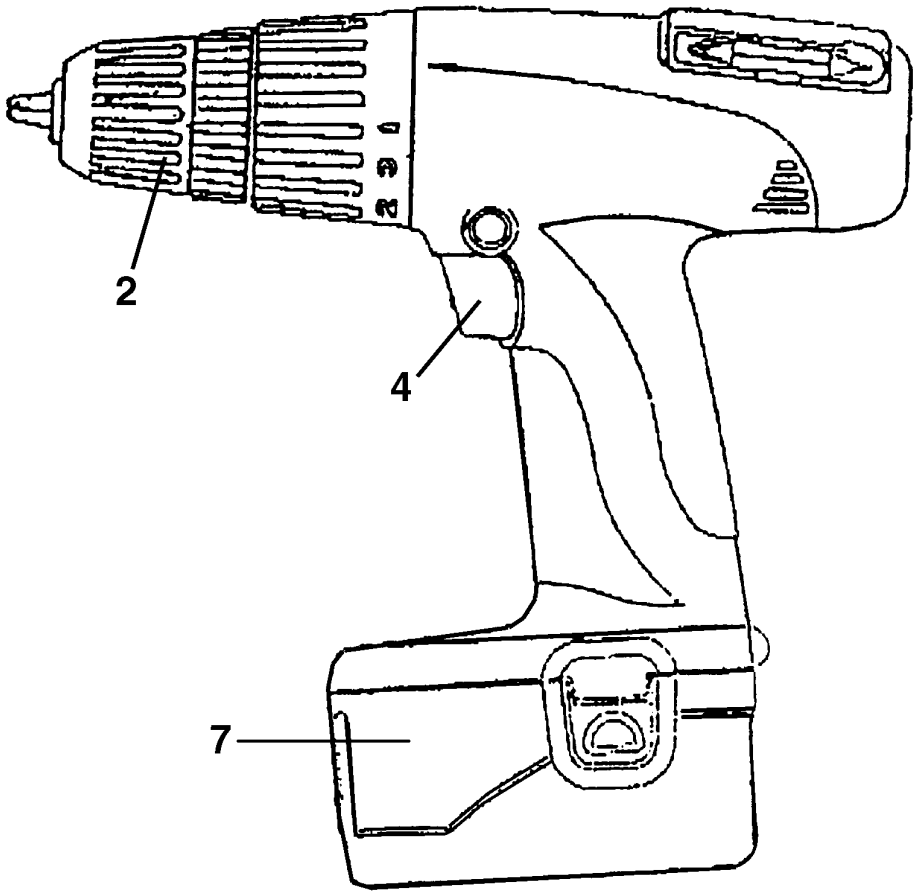
Do not force the tool

It will work better and safer at the rate for which it was intended.

Use the right tool

Do not force small tools or attachments to do the job of a heavy-duty tool. Do not use tools for purposes for which they were not intended; for example do not use a circular saw for cutting trees or logs.

EXPLODED VIEW



AVAILABLE SPARE PARTS FOR FSD-960K1

REF.NR.	DESCRIPTION	FERM NR.
2	KEYLESS CHUCK	406190
4	SWITCH	406189
7	BATTERY	406184
-	CHARGER TSD-3L, 9.6 V	406178
-	ADAPTOR TSD-960L, 3 - 5 hr	406196

AVAILABLE SPARE PARTS FOR FSD-1800K1

REF.NR.	DESCRIPTION	FERM NR.
2	KEYLESS CHUCK	406190
4	SWITCH	406189
7	BATTERY	406177
-	CHARGER TSD-3L, 18 V	406178
-	ADAPTOR TSD-1800L, 3 - 5 hr	406179

Do not abuse cable
Never carry tool by the cable or pull it to disconnect it from the power socket. Keep cable away from heat, oil and sharp edges. Do not touch the metal plug pins when connecting or removing the charger unit.

Secure work
Use clamps or a vice to hold work. It is safer than using your hand and it frees both hands to operate the tool.

Do not over-reach
Keep a proper footing and balance at all times.

Disconnect tools from power supply
When not in use, before servicing and when changing accessories such as blades, bits and cutters. **Always switch off and unplug the appliance from the power supply when making adjustments.**

Remove adjusting keys and wrenches
Ensure that they are removed from the tool before switching on.

Avoid unintentional starting
Do not carry plugged in tools with your finger on the switch.

Outdoor use
Do not use the charger unit outdoors. Do not expose drill, or batteries to rain or damp conditions.

Connect a dust extraction device
Whenever there are facilities for fitting a dust extraction system, make sure it is connected and used.

Use recommended accessories
The use of any other accessory or attachment other than recommended in the instructions or catalogue may present a risk of personal injury.

USING THE CORDLESS DRILL

BEFORE OPERATING

Check that:
- The voltage marked on the charger is suitable for use with your mains supply.
- The output voltage on the charger is suitable to use with the drill battery.
- The battery voltage is suitable for the drill.

The battery supplied with the drill is not fully charged.

CHARGING THE BATTERY

- Place the battery charger on a level surface and put the battery into the charger.
- Make sure the terminals on the battery tongue line up with the + and – terminals on the charger.
- Put the pushpin connector into the charger and plug the mains adaptor into the mains.
- Do not use a long extension lead with the charger. Only use the charger between +10 and +40o C
- The red light on the charger indicates the battery is being charged.

The first charge will take 5 hours, subsequent charges take about 3 hours

The red light will not go out when the battery is fully charged. Never charge the battery for more than 5 hours otherwise it will overheat.

Discharging the battery is as important as charging it. Use the drill until it becomes less powerful and does not reach maximum speed, the battery is now ready to be recharged. Do not discharge the battery completely – if this happens you will damage the battery and it will not be able to be recharged.

If the drill is not going to be used for a long period recharge the battery from time to time to prevent it running down. Store the battery separately in the plastic case.
Do not use the battery charger to charge batteries other then the one provided with drill.

Never open or incinerate a battery this can be dangerous and will cause risk of explosion, pollution or other health hazards.

INSERT BATTERY

Place the battery in the end of the handgrip, it can only go in one way and will click when in place. To remove battery, push the tabs in on either side of the battery with finger and thumb and pull out of handgrip.

OPERATION

To switch ON/OFF
Press the trigger switch 4.

To lock trigger switch
Put the left-right switch 3 in the central position.

Speed control
Adjust the drills speed by more or less pressure on the trigger-switch 4.

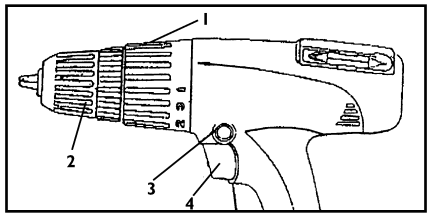
Direction of rotation
Change the direction by pushing switch 3 to left or right, this must be done when the drill is not rotating.

Inserting bits into chuck
Put the bit into chuck and tighten the chuck 2 firmly anti-clockwise by hand only. Remove bits by turning chuck 2 clockwise. Keep your finger off the trigger-switch during these operations

Use as a screwdriver
Insert a suitable screwdriver bit into the chuck and set the torque ring 1 to desired setting (1 is low and 8 is high) Start at low setting and increase setting until the correct setting for the job is found.

Do not use as a screwdriver with the torque ring set in drill position, this will damage the drill

Use as a drill
Insert a drill bit into chuck and set the torque ring to drill setting.



MAINTENCE, CARE AND REPAIR

FAULTS
Excessive parking
Indicates dirt in the motor or worn bushes. Take the drill to your Ferm dealer

Overheating
- The ventilation slots are blocked with dirt. Clean with dry cloth.
- The drill is overloaded. Apply less load. Use sharp drills.
- The motor is defective. Take to your Ferm Dealer

Battery does not charge or hold charge
- The battery was not properly charged/discharged. Try recharging and discharging it several times.
- The battery charger is defective. Contact your Ferm dealer to have it replaced.

MAINTAIN TOOLS WITH CARE
Keep tools/bits sharp and clean for better and safer performance.

Use only sharp drills of the following types:
For Concrete/Masonry
- Tungsten Tipped twist drills

For Metal:
- HSS Twist drills

For wood:
- HSS twist drills or CS flat wood bits

In every case use speed and feed rates recommended by the drill manufacturer/ supplier,

Follow instructions for changing accessories. Inspect tool and extension cables periodically and if damaged, have them repaired by a qualified person or authorised service body. Keep handles free from oil or grease. Keep the ventilation slots clean to prevent motor overheating.

Check for damaged parts
Do not use a tool with damaged parts, before further use a damaged tool must be carefully checked by a qualified person to determine that it will operate properly. Check for alignment of moving parts, binding or breakage of parts, mounting and other conditions that may affect its operation.
A damaged part or guard should be properly repaired by an authorised service centre, unless indicated otherwise in the instruction manual. Have defective switches replaced by an authorised service centre. Do not use a tool if the switch does not turn on and off.

Have your tool repaired by an expert
This appliance is manufactured in accordance with relevant safety standards. Only experts must carry out repairing of electrical appliances, otherwise considerable danger for the user may result.

Storing tools
When not in use tools should be stored in the dry, out of reach of children.

ELECTRICAL INFORMATION
This product is complete with a pre-wired mains plug unit. If the plug unit, charger or battery needs replacing contact the Helpline or your local Ferm Dealer.

ENVIRONMENT
At the end of this products or its accessories life please recycle where facilities exist Caution batteries contain substances that are harmful to your health or the environment. Do not open or incinerate them.
Please dispose of them safely - phone the Helpline for current advice on recycling and disposal.

Helpline
For any questions relating to operational or safety matters contact:
Ferm Customer Helpline on: **0115 966 1199**
Monday-Friday **8am – 6pm**
Saturday **9am – 1 pm**

GUARANTEE
The guarantee conditions can be found on the separately enclosed guarantee card.

CE DECLARATION OF CONFORMITY (UK)

We declare under our sole responsibility that this product is in conformity with the following standards or standardized documents

prEN50260-1, prEN50260-2-1, prEN50260-2-2, EN55014-1, EN55014-2,EN60335-1, EN60335-2-29, EN61000-3-2, EN61000-3-3.

in accordance with the regulations.

98/37EEC, 73/23/EEC, 89/336EEC

from 01-09-2001
GENEMUIDEN NL
W. Kamphof
Quality department